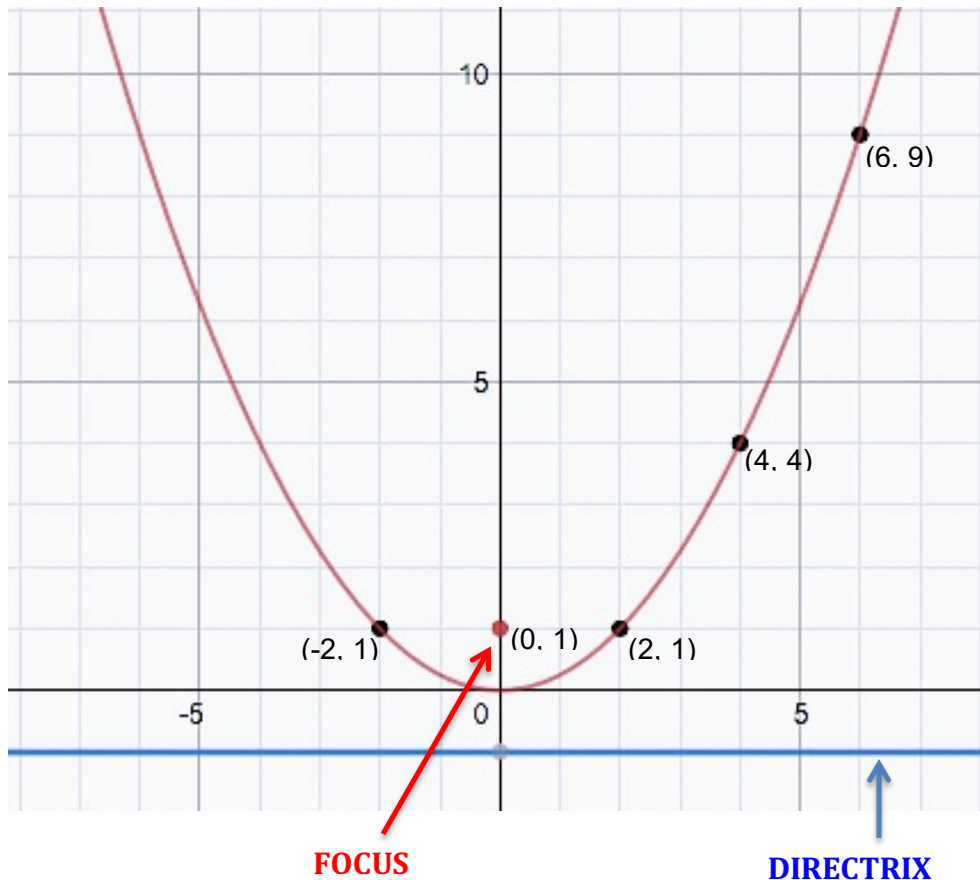


DEFINITION: A parabola is the set of points that are equal distance from a fixed point (called the **focus**) and a fixed line (called the **directrix**).

1. Use the definition of a parabola and the Pythagorean theorem to find the x-value of a point on a parabola when the y-value is 10.



2. How are you using the definition of the parabola to find the x-value?
3. Are your methods to find the x-value the same as Keoni and Sasha's? If they are different, why do both the methods work?

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